will be found on comparison with that of the Eric canal New York, to exceed the latter by nearly one hundred twenty per cent. An excess leading to an advantage, undersigned are prepared to show, much exceeds in m the amount of its actual cost, since the most satisfactory periments have demonstrated that a boat, adapted to the locks of both canals, can be impelled, on that of greatery ume, at the same velocity, with a force one third less the that required on the smaller canal; or, in other words, the by the enlargement of the cross section of the Chesapean and Ohio Canal, beyond that of the Erie canal an advantage has been gained for the former much more than equivale to the entire consumption of time, by a lockage of mon than three thousand two hundred feet. And this would ke true, were a minute, per foot allowed for, through a serie of locks of that aggregate lift. But when it is reflected that, by very recent improvements in the construction of locks, that time is reduced one half, at least, this advantage becomes of greater magnitude. It is demonstrable by the force of experiment, that, after completing the continue navigation, so long contemplated, from the city of Wash ington to Pittsburgh which will be afforded by a canal m differing materially, in length, from that which connect Albany with Lake Erie, though very greatly in lockage, given tonage may be transported on the former at twenty per cent less cost, for carriage merely, than on the latter, st as more than to atone for the difference of cost, and there fore of tolls, between the two canals, arising from the expensive tunnel and lockage of the broader and deeper canal

To realize all the benefit to be derived from this consideration-from the superior dimensions and inner pavement of the Chesapeake and Ohio canal—is one of the objects of the present memorial, by which the undersigned seek to ob tain an explicit recognition of the power of the Chesapeake and Ohio Canal Company to substitute boats for bridges, where the latter might be required on the Canal, in consequence of the difficulty of conducting a pathway beneath it By leaving the surface of the water unimpeded by any su perstructure, not only steam power, but sails, may be used to great advantage, upon the Chesapeake and Ohio Canal. as they are used in like manner, on the canal of the Forth and Clyde in Scotland. Where steam is not used, as in relation to boats of heavy burthen drawn by horses, the occasional sail, spread to a favoring wind, will enable the boatmen to refresh their horses, by carrying them on board,